

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/052386 A3

(51) International Patent Classification:
F16B 39/36 (2006.01) *F16B 35/00* (2006.01)

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:
PCT/US2004/037452

(22) International Filing Date:
9 November 2004 (09.11.2004)

(25) Filing Language: English

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(30) Priority Data:
60/523,435 19 November 2003 (19.11.2003) US

(88) Date of publication of the international search report:
29 June 2006

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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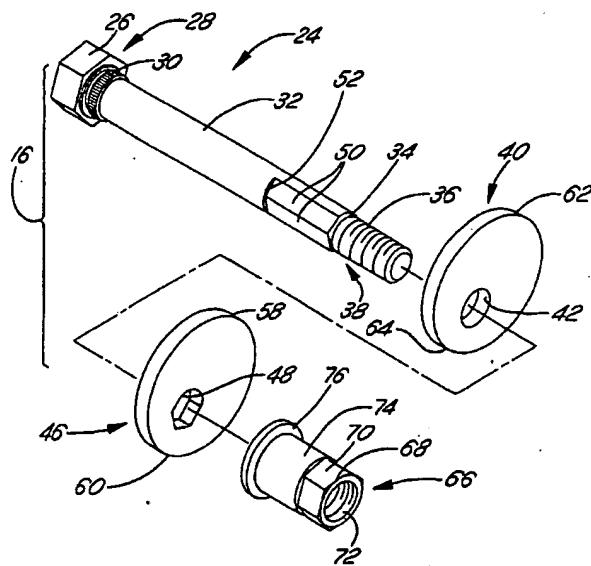
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

(54) Title: FASTENER ASSEMBLY



(57) Abstract: A fastener assembly adapted for providing adjustment between at least two members. A bolt includes a head, a shank axially extending from the head, and a circumferentially uninterrupted threaded portion axially extending from the shank. A first cam washer is fixed against rotation to the shank of the bolt in a position that is adjacent with respect to the head of the bolt. A second cam washer is fixed against rotation to the shank of the bolt in a position that is adjacent with respect to the threaded portion of the bolt. A threaded portion of a nut is threaded to the threaded portion of the bolt, and a skirt portion of the nut displaces the second cam washer as the nut is torqued down on the bolt.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/37452

A. CLASSIFICATION OF SUBJECT MATTER
IPC: (8) F16B 39/36(2006.01);F16B 35/00(2006.01)

USPC: 411/169,935.1,272,273,87,389
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 411/169, 935.1, 272, 273, 87, 389

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
USPGPUBS, DERWENT, EPO, JPO

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,580,201 A (BRILMYER) 3 Dec 1996 (03.12.1996), whole document, esp. Figs 1-6	1-3, 5-9, 14-17, 19-22, 27-29, 31-34, 39
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Y		4, 10-13, 18, 23-26, 30, 35-38
A	US 3,006,443 A (SILER) 31 Oct 1961 (31.10.1961), whole document.	1-39
A	US 6,382,645 A (GRAVELLE et al.) 07 May 2002 (07.05.2002), whole document.	1-37
A	US 6,302,416 A (SCHMACK) 16 Oct 2001 (16.10.2001), whole document.	1-39
A	US 2004/0090030 A1 (GENICK, II) 13 May 2004 (13.05.2004), whole document.	1-39

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Date of the actual completion of the international search 03 April 2006 (03.04.2006)	Date of mailing of the international search report 03 MAY 2006
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer <i>Katherine W. Mitchell</i> Telephone No. 571-272-5150

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US04/37452**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2005/0001397 A1 (GENICK, II) 06 Jan. 2005 (06.01.2005), whole document.	1-39
A	GB 2,116,279 A (MANNERS-SMITH) 21 Sept. 1983 (21.09.1983), whole document.	1-39

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